

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
**WO 2005/012619 A1**

(51) International Patent Classification<sup>7</sup>: **D04H 3/03**, 3/16,  
D01D 5/098, D01F 9/145

D. [US/US]; 1 Clairemont Circle, Tullahoma, TN 37388  
(US). **ROSSILON, Daniel, F.** [US/US]; 2504 Copper  
Creek, Ponca City, OK 74604 (US).

(21) International Application Number:  
PCT/US2004/023864

(74) Agents: **RICHARDS, John et al.**; Ladas & Parry LLP, 26  
West 61st Street, New York, NY 10023 (US).

(22) International Filing Date: 26 July 2004 (26.07.2004)

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/489,991 25 July 2003 (25.07.2003) US

(71) Applicant (for all designated States except US): **CONO-  
COPHILLIPS COMPANY** [US/US]; 600 North Dairy  
Ashford, Houston, TX 77079 (US).

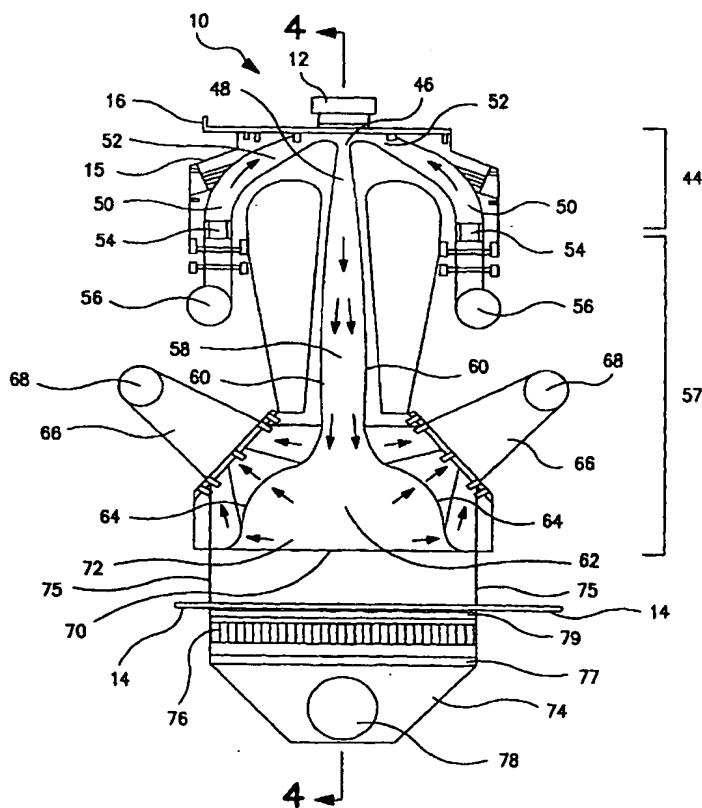
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VAKILI, Ahmad,**

[Continued on next page]

(54) Title: PROCESS AND APPARATUS FOR COLLECTION OF CONTINUOUS FIBERS AS A UNIFORM BATT



(57) Abstract: A process and apparatus for  
collecting continuous fibers or filaments as a  
uniform batt comprises a filament emitter in the  
form of a spinning die, a venturi, a diffuser, and a  
fiber collection bed. The filaments move downward  
after being created by the emitter, and exhaust  
ports create in the diffuser an airflow having a  
direction against the flow of the filaments so that  
the filaments are decelerated before contacting the  
fiber collection bed.

WO 2005/012619 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*